

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321559

Luminaire Tested: **GAN-SA5B-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20006 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

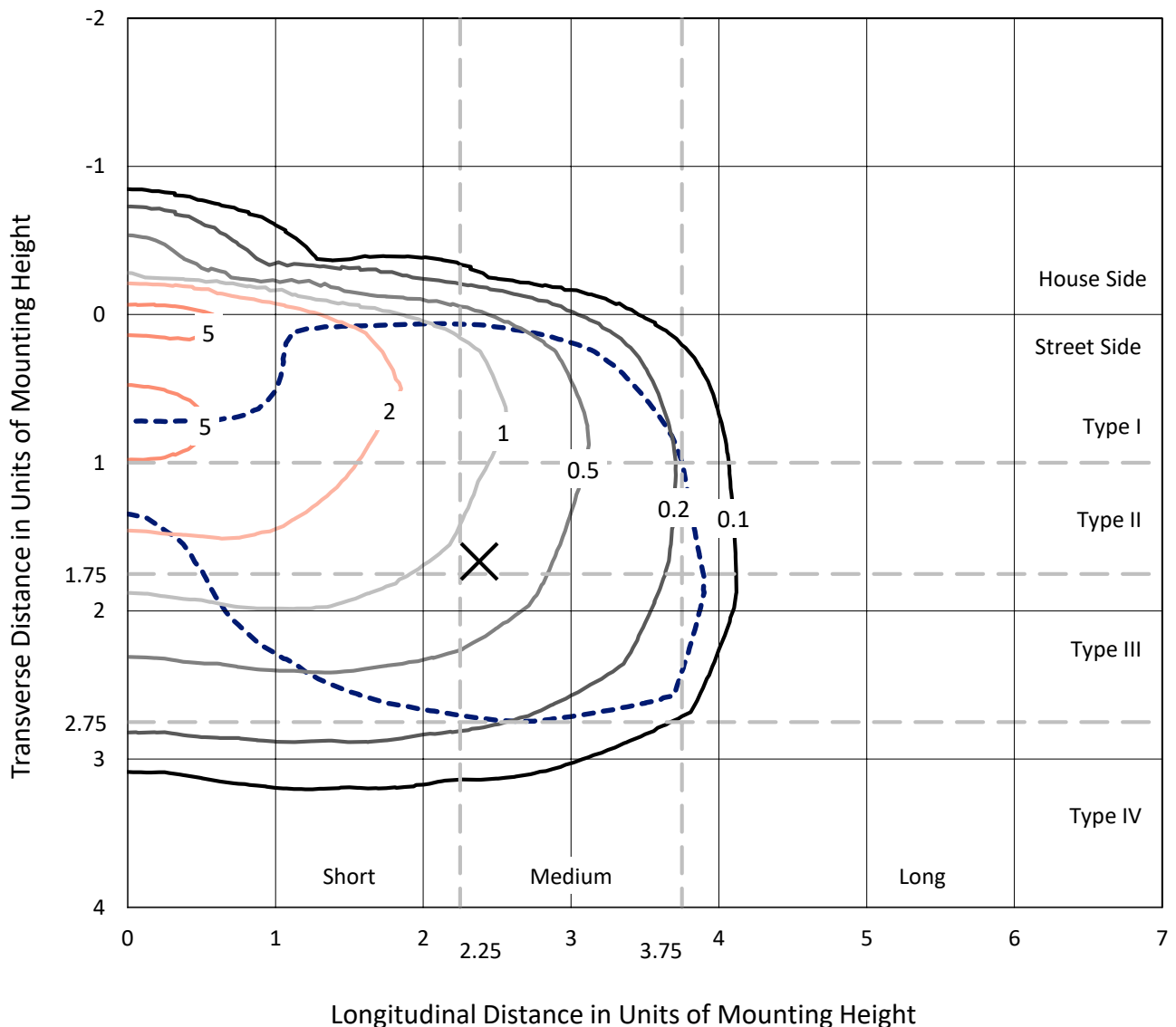




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Iso-Footcandle Lines of Horizontal Illumination

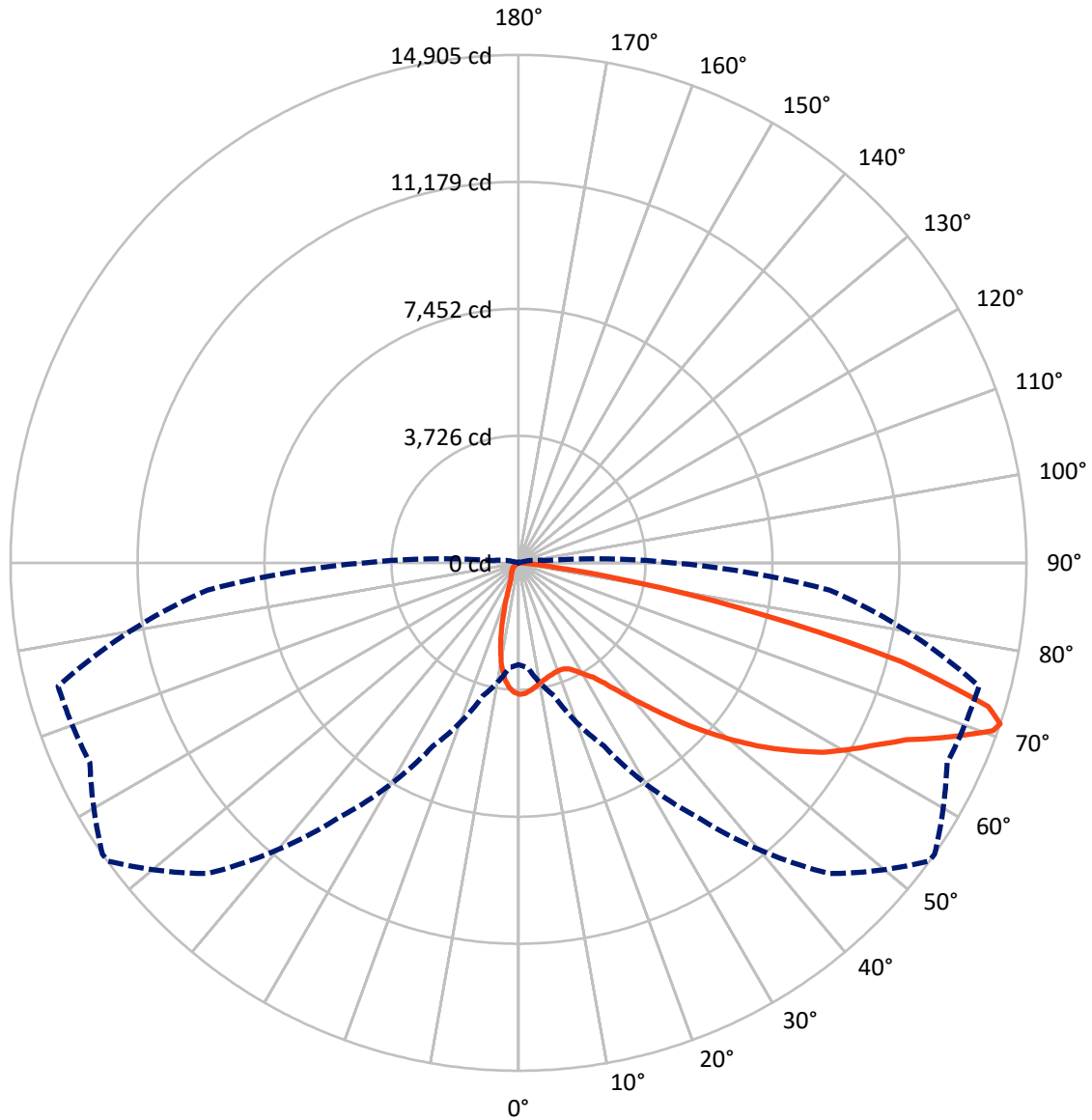
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.9	0.0	1583.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	18422.1	0.0	18422.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	20006.0	0.0	20006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.6
10°-20°	742.7	3.7
20°-30°	1193.5	6.0
30°-40°	2027.8	10.1
40°-50°	3147.4	15.7
50°-60°	4231.6	21.2
60°-70°	5176.6	25.9
70°-80°	3026.7	15.1
80°-90°	130.8	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20006.0	100.0
0°-180°	20006.0	100.0

Coefficient of Utilization

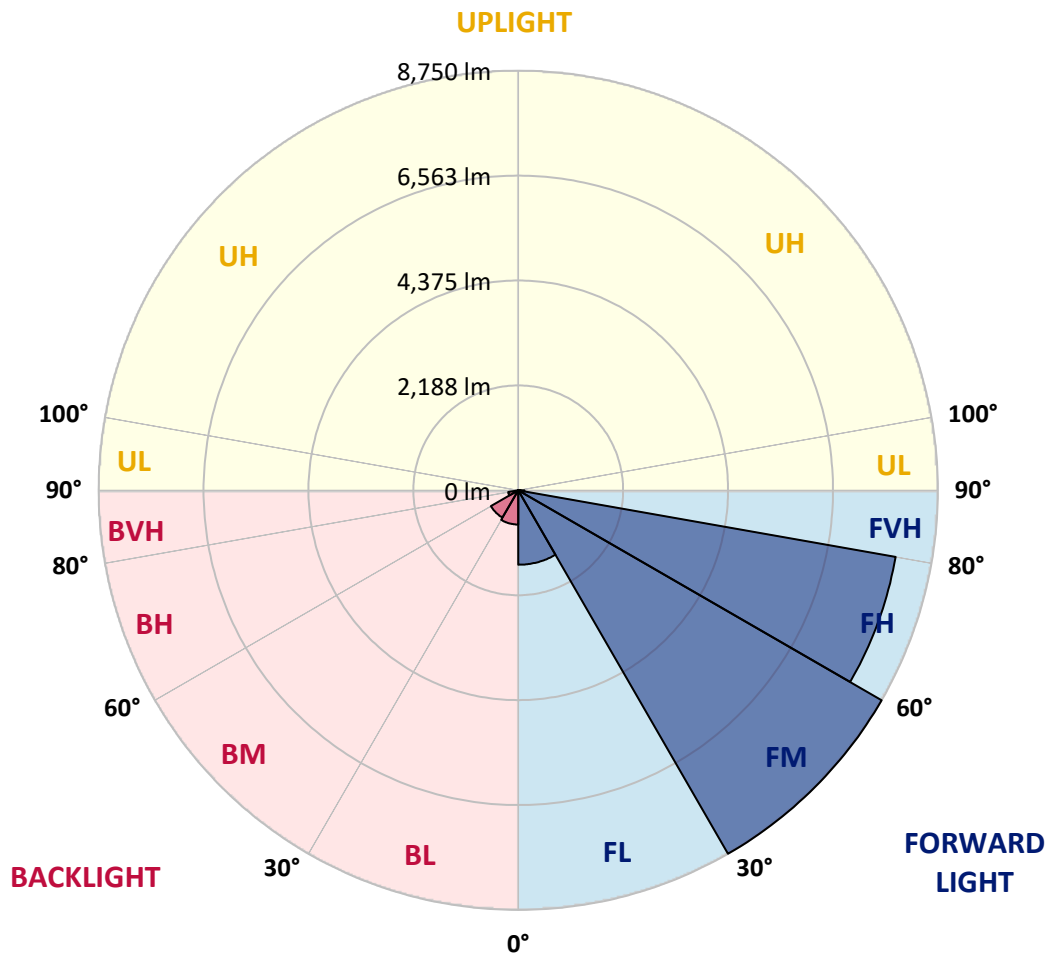


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.2	7.8			
FM (30°-60°)	8750.0	43.7			
FH (60°-80°)	7991.1	39.9			G4/12000
FVH (80°-90°)	128.8	0.6			G2/225
BL (0°-30°)	712.9	3.6	B2/1000		
BM (30°-60°)	656.7	3.3	B1/1000		
BH (60°-80°)	212.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2
2.5°	3745.0	3749.5	3765.7	3772.9	3790.0	3818.7	3833.1	3834.0	3857.3	3866.3	3873.5
5°	3480.0	3507.0	3533.9	3562.7	3614.8	3684.0	3752.2	3758.5	3834.0	3889.7	3919.3
7.5°	3251.9	3276.1	3308.5	3354.3	3427.9	3536.6	3650.7	3664.2	3807.0	3933.7	4000.2
10°	3017.4	3037.2	3083.9	3151.3	3252.8	3398.3	3551.9	3574.4	3782.8	3993.0	4109.8
12.5°	2766.8	2778.5	2835.1	2932.1	3081.2	3266.2	3468.4	3498.0	3767.5	4061.2	4239.1
15°	2576.3	2581.7	2635.6	2736.2	2906.9	3147.7	3403.7	3439.6	3771.1	4143.0	4380.1
17.5°	2527.8	2530.5	2559.3	2628.4	2779.4	3041.7	3352.5	3396.5	3781.9	4222.9	4522.1
20°	2724.6	2705.7	2676.1	2665.3	2730.0	2977.9	3321.9	3371.3	3796.2	4293.9	4649.6
22.5°	3264.4	3208.8	3085.7	2921.3	2821.6	2982.4	3330.0	3379.4	3842.1	4381.0	4797.0
25°	4065.7	3988.5	3779.2	3455.8	3145.0	3111.7	3397.4	3447.7	3931.0	4485.2	4938.0
27.5°	4977.5	4901.2	4645.1	4183.4	3653.4	3367.8	3551.9	3598.6	4063.0	4577.8	5045.8
30°	5850.7	5829.1	5527.3	5002.7	4293.0	3782.8	3751.3	3790.9	4161.0	4633.5	5131.1
32.5°	6590.9	6556.7	6314.2	5804.0	5025.1	4281.3	3985.8	3997.5	4234.6	4705.3	5242.5
35°	7277.2	7235.0	7022.1	6539.7	5776.1	4890.4	4346.9	4329.8	4395.4	4850.0	5404.2
37.5°	7876.4	7915.0	7678.7	7219.7	6449.8	5523.7	4833.8	4782.6	4646.9	5085.3	5638.7
40°	8377.6	8377.6	8254.5	7871.9	7177.5	6178.6	5384.5	5317.1	5025.1	5448.2	5936.0
42.5°	8558.2	8596.8	8642.6	8426.1	7828.7	6859.5	5998.0	5927.9	5557.8	5963.0	6311.5
45°	8569.0	8630.0	8864.5	8863.6	8417.1	7535.9	6689.7	6656.5	6240.5	6624.1	6776.8
47.5°	8417.1	8493.5	8879.8	9099.0	8883.4	8165.6	7446.1	7404.7	7042.7	7434.4	7263.7
50°	8182.7	8267.1	8716.3	9191.5	9200.5	8713.6	8242.9	8180.9	7925.8	8360.5	7766.8
52.5°	7763.2	7926.7	8569.8	9213.0	9408.9	9187.0	9001.0	8974.1	8913.9	9252.6	8167.4
55°	6865.8	7047.2	8202.4	9220.2	9602.0	9606.5	9711.6	9718.8	9840.1	10086.2	8465.6
57.5°	6441.8	6544.2	7561.1	9254.4	9888.6	10082.6	10435.6	10491.3	10679.1	10877.6	8806.1
60°	6175.0	6296.2	7244.8	9207.6	10338.6	10706.9	11106.7	11125.5	11326.8	11694.2	9266.9
62.5°	5962.1	6081.5	7045.4	9028.0	10844.4	11457.9	11762.4	11764.2	11915.1	12667.0	9790.6
65°	5436.6	5537.2	6642.1	8825.9	11178.5	12200.8	12524.2	12512.5	12635.6	13692.9	10398.8
67.5°	4676.6	4753.8	5818.3	8059.6	11052.8	12876.3	13674.0	13635.4	13486.3	14579.5	10637.8
70°	3615.7	3643.5	4585.9	6716.6	9874.2	13135.9	14785.2	14765.5	14008.2	14420.5	9761.9
71°	2988.7	3080.3	4041.5	5927.9	9084.6	12896.1	14893.0	14904.7	13877.0	13987.5	9159.1
72.5°	1735.5	1813.7	2929.4	4552.6	7712.9	11895.4	14334.3	14418.7	13264.4	12722.7	7823.4
75°	371.9	398.0	1086.1	2203.5	4242.7	8337.2	11314.2	11615.1	10811.1	8655.2	4715.2
77.5°	258.7	279.4	465.3	999.8	1402.3	4119.6	7028.4	7367.9	6458.8	3252.8	1509.2
80°	204.8	228.2	362.9	494.1	379.1	1328.6	3292.3	3499.8	2154.1	725.8	254.2
82.5°	114.1	135.6	283.0	266.8	145.5	252.4	921.7	1042.0	431.2	146.4	60.2
85°	33.2	40.4	182.4	194.0	62.0	48.5	157.2	194.9	81.7	38.6	26.9
87.5°	0.0	0.0	88.0	74.6	18.0	7.2	14.4	16.2	16.2	16.2	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2	3858.2
2.5°	3873.5	3879.8	3857.3	3827.7	3796.2	3757.6	3717.2	3685.8	3684.9	3669.6	3654.3
5°	3921.1	3917.5	3855.5	3761.2	3649.8	3533.9	3423.4	3298.6	3257.3	3206.1	3189.0
7.5°	4009.1	3984.0	3852.8	3646.2	3401.9	3159.3	2908.7	2656.3	2548.5	2451.5	2434.4
10°	4119.6	4072.0	3835.8	3473.8	3025.5	2578.1	2200.0	1856.8	1705.9	1590.0	1584.6
12.5°	4234.6	4161.9	3788.2	3213.2	2532.3	1903.5	1467.8	1130.1	1004.3	923.5	930.6
15°	4355.0	4246.3	3685.8	2862.0	1970.9	1291.8	901.9	703.4	653.1	632.4	637.8
17.5°	4478.1	4304.7	3542.9	2438.9	1416.6	833.6	624.3	568.6	568.6	573.1	574.9
20°	4585.0	4336.1	3332.7	1964.6	960.3	607.3	546.2	538.1	542.6	549.8	550.7
22.5°	4691.0	4337.9	3058.7	1484.0	671.9	531.8	520.1	516.5	519.2	527.3	528.2
25°	4777.2	4316.4	2715.6	1055.5	536.3	501.3	495.9	494.1	495.9	505.7	505.7
27.5°	4812.2	4238.2	2297.0	742.0	480.6	467.1	465.3	467.1	469.8	477.0	477.9
30°	4815.8	4101.7	1840.6	537.2	435.7	421.3	424.9	431.2	428.5	426.7	428.5
32.5°	4824.8	3943.6	1396.0	442.0	398.0	375.5	371.0	371.0	360.2	353.9	350.3
35°	4854.5	3757.6	1012.4	397.1	359.3	333.3	316.2	296.4	275.8	265.0	262.3
37.5°	4901.2	3562.7	724.9	367.4	325.2	295.5	263.2	228.2	198.5	190.4	190.4
40°	4986.5	3361.5	536.3	344.1	298.2	261.4	212.9	167.1	140.1	135.6	135.6
42.5°	5121.2	3149.5	427.6	323.4	274.9	226.4	162.6	121.3	101.5	98.8	97.9
45°	5261.4	2915.9	373.7	303.6	249.7	185.9	120.4	89.8	78.2	75.5	75.5
47.5°	5401.5	2667.1	347.6	284.8	225.5	144.6	89.8	71.0	65.6	65.6	66.5
50°	5520.1	2407.5	328.8	264.1	194.0	109.6	71.0	60.2	58.4	62.0	62.9
52.5°	5549.7	2152.3	305.4	238.1	155.4	83.5	58.4	53.0	53.0	53.0	53.0
55°	5531.8	1954.7	274.9	205.7	115.0	66.5	50.3	46.7	45.8	45.8	45.8
57.5°	5592.9	1837.9	220.1	159.9	82.6	53.9	44.0	41.3	39.5	38.6	38.6
60°	5715.9	1761.6	157.2	115.0	62.0	44.9	37.7	35.0	32.3	30.5	30.5
62.5°	5879.4	1695.1	116.8	85.3	47.6	35.9	31.4	28.7	25.2	23.4	23.4
65°	6005.2	1576.5	88.9	63.8	35.9	28.7	24.3	23.4	18.0	16.2	15.3
67.5°	5812.9	1316.0	71.9	46.7	26.9	22.5	18.9	18.0	10.8	9.0	9.0
70°	4985.6	916.3	57.5	34.1	19.8	18.0	15.3	11.7	8.1	7.2	7.2
71°	4521.2	765.4	52.1	28.7	17.1	17.1	14.4	9.9	7.2	6.3	6.3
72.5°	3755.8	543.5	44.0	22.5	15.3	18.0	15.3	9.0	7.2	6.3	5.4
75°	2180.2	227.3	30.5	15.3	11.7	21.6	19.8	8.1	5.4	4.5	4.5
77.5°	655.8	83.5	17.1	9.9	9.0	18.9	22.5	7.2	2.7	0.9	0.9
80°	119.5	35.9	10.8	6.3	6.3	11.7	17.1	3.6	0.0	0.0	0.0
82.5°	42.2	18.0	6.3	3.6	2.7	5.4	8.1	0.0	0.0	0.0	0.0
85°	24.3	12.6	3.6	1.8	0.0	0.9	1.8	0.0	0.0	0.0	0.0
87.5°	16.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)